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Adaptive Scheduling with Client Resources to Improve WWW.. - Andresen, Yang (1996) (Correct)
resource requirements are predicted and suggested to **gui**de the load sharing, our work provides a more
In this paper, we model **client-server partition**able WWW applications and propose adaptive
Adaptive Scheduling with **Client** Resources to Improve WWW **Server** Scalability
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Transactions in the Client-Server EOS Object Store - Biliris, Panagos (1995) (Correct)
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March 1995, pages 308-315 Transactions in the **Client-Server** EOS Object Store Alexandros Biliris and
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Performance Analysis of an Associative Caching Scheme for.. - Basu, Pöss, Keller (1997) (Correct)
Jan 1996. 12] Mesquite Software, CCSim User's **Gui**de,Austin, Texas, USA, August 1994. 13] Oracle
(1) Caching is dynamic in nature, unlike static **partition**ing in replicated systems 2) **client** caches are
Analysis of an Associative Caching Scheme for **Client-Server** Databases Julie Basu Meikel Poss Arthur
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Peer-to-Peer Reconciliation Based Replication for Mobile.. - Peter Reiher (1996) (Correct) (8 citations)
suitably handled by peer-topeer models than by **client/server** models, and by reconciliation-based
handled by peer-topeer models than by **client/server** models, and by reconciliation-based replication
fmg-www.cs.ucla.edu/ficus-members/reiher/papers/ecoop.ps

Object Interconnections: Distributed Callbacks and Decoupled .. - Schmidt, Vinoski (1996) (Correct) (1 citation)
registered to handle graphical user interface (**GUI**) events, such as the click of a mouse button in a
systems: decoupling the relationship between "**clients**" and "**servers**.Our examples to date have
concurrency models for developing multithreaded **server** applications. In this column, we'll start looking
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Fine-granularity Locking and Client-Based Logging.. - Panagos, Biliris.. (1996) (Correct) (2 citations)
1996, pages 388-402 Fine-granularity Locking and **Client**-Based Logging for Distributed Architectures E.
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The Effect of **Client** Caching on File **Server** Workloads Kevin W. Froese
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Writing a Client-Server Application in C++ - Guedes, Julin (1992) (Correct) (1 citation)
Writing a **Client-Server** Application in CPaulo Guedes Daniel
Writing a **Client-Server** Application in CPaulo Guedes Daniel Julin
ftp.cs.cuhk.hk/pub/mach3/src/mach_us/src/doc/usenix-c++-92.ps

Tools for Building Asynchronous Servers to Support Speech and.. - Arons (1992) (Correct) (6 citations)
Inc.Mountain View, California. Network Programming **Gui**de, 1990. 26] C. C. Wong. Personal
barons@media-lab.mit.edu ABSTRACT Distributed **client/server** models are becoming increasingly
Tools for Building Asynchronous **Servers** to Support Speech and Audio Applications Barry
www.media.mit.edu/people/barons/papers/AsynchAudioServerTools-UIST92.ps

M-RPC: A Remote Procedure Call Service for Mobile Clients - Bakre, Badrinath (1995) (Correct) (5 citations)
M-RPC: A Remote Procedure Call Service for Mobile **Clients** Ajay Bakre and B. R. Badrinath Department of
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A Transfer Protocol for an Open Hyperdocument Model Server - Buford (1995) (Correct)
is provided by extending the DTD and the **client** applications which display this DTD. So, for
A Transfer Protocol for an Open Hyperdocument Model **Server** John F. Buford Dept. of Computer Science and
dmsl.cs.uml.edu/~buford/papers/edmedia95.ps.gz

Degrees of Transaction Isolation in SQL*Cache: A.. - Basu, Keller (1996) (Correct) (2 citations)
Isolation in SQL*Cache: A Predicate-based **Client**-side Caching System Julie Basu Arthur M. Keller
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DARWIN: On the Incremental Migration of **Legacy** Information Systems 1 Michael L. Brodie Michael
db.cs.berkeley.edu/papers/S2K-93-25.ps.Z

Practical Development of Internet Prolog Applications using.. - Samhaa El-Beltagy (Correct)
.it allows the easy implementation of effective **GUIs**, it is a safe language (no pointers, and
the Internet. The approach presented makes use of **client-server** architecture where the **client** is a
The approach presented makes use of **client-server** architecture where the **client** is a relatively
clement.info.umoncton.ca/~lpnet/proceedings97/beltagy.ps

A Laboratory Environment For Experimenting With Xinu - Comer, Lin (Correct)
The utility programs consist of a set of **client** programs and a **server** program called Connection
front-end computers, back-end computers, and **server** computers. The three groups of computers are
gwen.cs.purdue.edu/pub/lin/xinulab.ps.Z

Implementing Lightweight Remote Procedure Calls in the Mach .. - Bourassa, Zahorjan (1995) (Correct) (1 citation)
then exiting-returning to the user-level in the **guise** of the newly tailored **server** thread. The **server**
procedure calls (RPCs) to provide services to **client** applications. Although the existing Mach 3 RPC
clear that the most common use of RPCs was for **servers** residing on the same machine [2]The Mach 3
casaturn.kaist.ac.kr/~sikang/course/CS530/rpc/BZ95.ps.gz

An Object Oriented System for Developing Distributed Applications - Gurdip Singh (1997) (Correct)
Most of these systems provide support for the **client/server** paradigm, which is a very common form of
basic system consists of a set of multithreaded **servers**, one **server** for each site in the network, which
maarc.usc.edu/~hipc/hipc97/papers/112.ps

An Adaptable Multithreaded Prefetching Technique for.. - Knafla (1998) (Correct)
Avenue, Mountain View, CA 94043, USA. SunOS 5.3 **Guide** to Multithread Programming, November 1993. 20]
Adaptable Multithreaded Prefetching Technique for **Client-Server** Object Bases Nils Knafla Department of
Multithreaded Prefetching Technique for **Client-Server** Object Bases Nils Knafla Department of Computer
www.dcs.ed.ac.uk/home/nk/papers/cc.ps.gz

Elastic Servers in CORDS - Goldszmidt (1992) (Correct)
New York City, NY 10027 Abstract The traditional **client server** paradigm for distributed computing, fixes
Elastic **Servers** in CORDS In Proceedings of the IBM/CAS
www.cs.columbia.edu/~german/papers/cas92.ps

Designing Conversational Interfaces With Multimodal.. - Bers, Miller, Makhoul (Correct)
is static, displays the system's status and contains **GUI** buttons for controlling the speech recognizer. The
parts in these diagrams. VoiceLog features a novel **client-server** approach to speech recognition, modular
VoiceLog is a voice-enabled connection to a web-**server** that allows one to obtain vehicle diagrams and to
www.nist.gov/speech/proc/darpa98/ps/demo10.ps

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1 Session 3: Techniques and applications of software evolution: Recycling software components extracted from legacy programs

Harry M. Sneed

September 2001 **Proceedings of the 4th international workshop on Principles of software evolution**

Full text available: pdf(690.20 KB) Additional Information: full citation, abstract, references

This paper depicts yet another approach to cope with legacy software systems, a struggle that began already in the early 1980's with the development of the first restructuring tools and has continued throughout the last 20 years with only modest success. In the meantime, reengineering technology has subsided and is now in the process of being replaced by new techniques aimed towards the reuse of existing software in modern distributed architectures. Such reuse presupposes a recycling process to ...

Keywords: measurement, reengineering, reuse, slicing, software recycling, wrapping

2 Migration of procedural systems to network-centric platforms

Prashant Patil, Ying Zou, Kostas Kontogiannis, John Mylopoulos

November 1999 **Proceedings of the 1999 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(262.24 KB) Additional Information: full citation, abstract, references, index terms

Technologies developed over the past few years such as CORBA, Java and the Web, have made it easier to build and deploy distributed object applications. These technologies have also made a visible impact on legacy software system evolution.This paper focuses on the methods for re-engineering procedural systems into new Network-Centric platforms. The first step of this re-engineering method is to migrate a legacy system into an object oriented architecture. The extraction of the object oriented a ...

3 Transitioning legacy assets to a product line architecture

Joachim Bayer, Jean-François Girard, Martin Würthner, Jean-Marc DeBaud, Martin Apel

October 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th European engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 24 Issue 6

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, index terms

A successful software system evolves over time, but this evolution often occurs in an ad-hoc

fashion. One approach to structure system evolution is the concept of software product lines where a core architecture supports a variety of application contexts. However, in practice, the high cost and high risks of redevelopment as well as the substantial investments made to develop the existing systems most often mandate significant leverage of the legacy assets. Yet, there is little guidance in ...

Keywords: architecture recovery, domain-specific software architecture, reengineering, reuse, software product line

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

6 Development of distributed and client/server object-oriented applications (panel): industrial solutions

Lutz Heuser

October 1994 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum)**, Volume 5 Issue 4

Full text available: pdf(467.94 KB) Additional Information: full citation, references

7 Shoring up persistent applications

Michael J. Carey, David J. DeWitt, Michael J. Franklin, Nancy E. Hall, Mark L. McAuliffe, Jeffrey F. Naughton, Daniel T. Schuh, Marvin H. Solomon, C. K. Tan, Odysseas G. Tsatalos, Seth J. White, Michael J. Zwilling

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms

SHORE (Scalable Heterogeneous Object REpository) is a persistent object system under development at the University of Wisconsin. SHORE represents a merger of object-oriented database and file system technologies. In this paper we give the goals and motivation for SHORE, and describe how SHORE provides features of both technologies. We also describe some novel aspects of the SHORE architecture, including a symmetric peer-to-peer server architecture, server customization through an extensible ...

8

Integrating legacy systems with modern corporate applications
Paul Robertson
May 1997 **Communications of the ACM**, Volume 40 Issue 5
Full text available: pdf(391.34 KB) Additional Information: full citation, references, citings, index terms

9 Legacy object modeling speeds software integration
W. B. Noffsinger, Robert Niedbalski, Michael Blanks, Niall Emmart
December 1998 **Communications of the ACM**, Volume 41 Issue 12
Full text available: pdf(620.20 KB) Additional Information: full citation, references, citings, index terms

10 Using Java to develop Web based tutorials
David Cole, Roger Wainwright, Dale Schoenefeld
March 1998 **ACM SIGCSE Bulletin , Proceedings of the twenty-ninth SIGCSE technical symposium on Computer science education**, Volume 30 Issue 1
Full text available: pdf(680.67 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents the use of Java applets acting as a web-based interface to existing, platform dependent software tools. We present an example application called GAWebTutor which was constructed from a comprehensive genetic algorithm package and web-based Java components. In effect, we packaged an interactive genetic algorithms tutorial and made it available to anyone on the WWW. Furthermore, by building a GUI front end to an existing application in Java, we leveraged browser technology to ov ...

11 Ada Semantic Interface Specification (ASIS): frequently asked questions
Currie Colket
July 1995 **ACM SIGAda Ada Letters**, Volume XV Issue 4
Full text available: pdf(796.31 KB) Additional Information: full citation, index terms

12 Concurrency and distribution in object-oriented programming
Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr
September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3
Full text available: pdf(289.34 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the reflective approach. The library approach applies object-oriented concepts, as they are, to structure concurrent and distributed systems through class libraries. The integrative approach consists of merging concepts such as obj ...

Keywords: concurrency, distribution, integration, libraries, message passing, object, reflection

13 International workshop on large-scale software composition
Rudolf K. Keller, Bruno Laguë, Reinhard Schauer
January 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 1
Full text available: Additional Information:

pdf(635.65 KB) full citation, abstract, index terms

This report summarizes the International Workshop on Large-Scale Software Composition held at the University of Vienna, Austria, on August 28, 1998 in conjunction with the Database and Expert Systems Applications (DEXA'98) conference. An overall forty people attended the workshop consisting of seven presentations and plenary discussions. In the following, we outline the presentations and subsequent discussions in the four workshop sessions, which included Setting the Stage, Component Modeling, M ...

14 Software evolution: Understanding software systems using reverse engineering technology perspectives from the Rigi project

Hausi A. Müller, Scott R. Tilley, Kenny Wong

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available: pdf(785.90 KB) Additional Information: full citation, abstract, references

Software engineering research has focused mainly on software construction and has neglected software maintenance and evolution. Proposed is a shift in research from synthesis to analysis. Reverse engineering is introduced as a possible solution to program understanding and software analysis. Presented is reverse engineering technology developed as part of the Rigi project. The Rigi approach involves the identification of software artifacts in the subject system and the aggregation of these artif ...

Keywords: legacy software, program understanding, reverse engineering, software evolution

15 Higher-order distributed objects

Henry Cejtin, Suresh Jagannathan, Richard Kelsey

September 1995 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 5

Full text available: pdf(2.33 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe a distributed implementation of Scheme that permits efficient transmission of higher-order objects such as closures and continuations. The integration of distributed communication facilities within a higher-order programming language engenders a number of new abstractions and paradigms for distributed computing. Among these are user-specified load-balancing and migration policies for threads, incrementally linked distributed computations, and parameterized client-server applicat ...

Keywords: concurrency, continuations, higher-order languages, message-passing

16 Progress in building user interface toolkits: the world according to XIT

Jürgen Herczeg, Hubertus Hohl, Matthias Ressel

December 1992 **Proceedings of the 5th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index terms

User interface toolkits and higher-level tools built on top of them play an ever increasing part in developing graphical user interfaces. This paper describes the XIT system, a user interface development tool for the X Window System, based on Common Lisp, comprising user interface toolkits as well as high-level interactive tools organized into a layered architecture. We especially focus on the object-oriented design of the lower-level toolkits and show how advanced features for describing a ... .

Keywords: graphical user interfaces, interaction techniques, object-oriented programming, user interface development tools, user interface toolkits

17 Web-based specification and integration of legacy services
Ying Zou, Kostas Kontogiannis
November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(279.28 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

18 The Diesel Combustion Collaboratory: combustion researchers collaborating over the Internet
Carmen M. Pancerella, Larry A. Rahn, Christine L. Yang
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**
Full text available: pdf(3.95 MB) Additional Information: full citation, references, citings, index terms

19 Recovering software architecture from multiple source code analyses
Melissa P. Chase, Steven M. Christey, David R. Harris, Alexander S. Yeh
July 1998 **ACM SIGPLAN Notices , Proceedings of the 1998 ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering**, Volume 33 Issue 7
Full text available: pdf(991.04 KB) Additional Information: full citation, abstract, references, index terms

We describe the experiences we have had in using ManSART - a software architecture recovery tool that we developed and are employing in the analysis of large scale legacy software systems. ManSART uses a battery of standard data flow, control flow, and program slicing capabilities to automatically recover architectural features from source code. This source code analysis is enabled by representations called analysis. Analysis modules describe the interfaces of each component in a multiple compon ...

20 IPNL: A NAT-extended internet architecture
Paul Francis Ramakrishna
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4
Full text available: pdf(241.65 KB) Additional Information: full citation, references, citings, index terms